COLUMBIA HAS NEWS OF ALL BRANCHES OF SPORT INFORMATION FOR AUTO DRIVERS

What You Want to Know About Your Auto and How To Drive It and Keep It

Expert Advice How to Keep Automobiles Running Smoothly and the Best Way to Remedy Machine Troubles-Traffic Suggestions and Pleasure Routes for Evening World Readers.

By GEORGE H. ROBERTSON.



Lake Mahopac, a delightful resort. Just beyond the lake you reach Carmel on the shore of Lake Gleneida.

On the other side of Carmel you turn westward at Ludingtonville and pass through Cold Spring, where a turn is made south to Garrison, where the ferry is taken to West Point. Passing through the "Point," you turn south to Haverstraw and then turn away from the lower valley westward to Suffern, a wealthy summer colony.

It is a charming ride from Suffern to Hackensack, and from there to Fort Lee is a short run which leads to the ferry for One Hundred and Thirtieth Street.

ANSWERS TO LETTERS.

sure continued service from plain bearings? A READER.

bearings?

The boxes of a plain bearing must be accurately fitted to the shafts they are to bear against. They must have sufficient space to provide a film of oil between the working surfaces. Positive means of supplying lubricant must be used because it is really the film of oil between the two surfaces that acts as a friction reducer and makes the plain bearing practical.

I have been having considerable trouble from the universal joints of my car becoming dry. I try to get the grease to them, but it does not seem to do any good. Can you advise me what to do?

J. H. WILLIAMS.

Universal joints are generally encased in grease retaining housings and should not need lubrication oftener than every month or every thousand miles of car service. The duty grease is removed by flushing out with kerorene and the joint may be refilled with transmission oil or light universal grease, depending on be refilled with transmission oil or light universal grease, depending on the construction. Some universal joints are provided with small compression grease cups, which may be acrewed down from time to time, while others mounted at the front end of a torque tube axle, employing but one universal joint, are provided with a separate oil lead from a mechanical villes or with a large cup which lubrical versal joint is carried, as well as the parts of the joint.

Automobile Editor: What can be done to make the faced cone clutch with which my car is equipped engage easily?

JAMES MARTIN.

If the leather facing is charred or worn too much, it should be replaced with a new one, whereas if it has only become dry it may be softened by applying kerosene, nexts-foot or Automobile Editor:

The steering gear of my car is very

the joints of the tie-bar and drag link become dry and the bear-ings on the worm whoel shaft and steering post are not properly lubricsteering post are not properly lubric-sted the action of the gearing is apt to be stiff. Some forms of steering gears may be adjusted by eccentric brushings which may be oscillated to bring worm and worm gear in closer relation. If the bearings are turned so that all lost motion is eliminated, with the gearing in the straight ahead losition, the action will be stiff when and wheel is turned because the

Are chemical carbon removers which are advertised efficient and do they damage cylinder walls through chemical action? W. A. TITTERTON.

A few that are on the market are good, but I would not advise the use of any liquid carbon remover too often. They have a tendency to eat the oil which is in the pores of the piston and cylinder.

Kindly advise me of a good auto-mobile school in this city?

WALTER R. WHALEN. The Stewart Automobile School is

Are all wrist pins fitted in the cen-

MOTORISTS' PROBLEMS SOLVED

seeps H. Hobertson, America's foremost cing experi, mys: Automobile owners, prospective owners wil men wishing to become chauffeurs sould not fall to take a course in your hool." bey and Evening Classes; also private in-direction at hours to suit convenience. Special Classes for Ladies

Stewart Auto School ME WHAT STEE STREET (at Breedmar) cal to fit them lower in the piston? What disadvantage would it be? A DRIVER.

from motorists for short

week-end trips. Fortunately

the country just outside the city lim-

its abounds in picturesque scenery. especially at this time of the year.

The roads are generally good and

automobilists derive much enjoy-

To travel through Westchester to Carmel, returning by way of West

Point, is an ideal trip of about 140

miles. The road leads northward along Broadway to Yonkers, then

follows the river up to Dobbs

Ferry. From there the visitor turns

away from the river and runs

through fashionable Ardsley to Briarcliff. From this point it is a glori-

ous run through a rolling country to

ment from these short journeys.

The location of the wrist pin varies with the design of the motor. The best practice calls for it to be placed half way between the bottom piston ring groove and the bottom of the piston. The clearance between the piston and the cylinder also figures in the position of the wrist pin.

What is the best way to remove carbon deposits from the piston heads and do you know of any way to re-pair slight cracks in battery cells of

pair slight cracks in battery cells of the plate type? E. W. D.

There are three good ways for the removal of the carbon—first, take the cylinders off and scrape the carbon by hand; second, use some liquid remover of which there are several good ones on the market; the third is by the oxygen burning process. This is very handy and does not require much time. Would advice you to send the battery to a good battery repair man who has materials to do this.

Automobile Editor:

When my engine is cold I find it impossible to start same unless primed. What is the reason?

H. C. HOEF.

The carbureter needs adjusting. Because of the cold the gasoline does not vaporize easily and unless the carbureter has the proper adjustment the mixture will not fire pro-

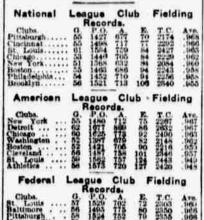
done, the trouble is not eliminated. look for air leaks in the manifold gaskets. An air leak is very annoying and causes no end of trouble.

MISS WAGNER WINS

IN TENNIS FINAL.

Miss Marie Wagner, the New York feated Mrs. Barger Wallach, 6—4, 8—6, in the final round of the Quaker Ridge tournament at the New Rochelle Club. In the semi-final of the singles Dr. William Rosenbaum defeated Francis T. Hunter, 6—4, 6—3. Dr. Rosenbaum has been coached by Haggett, the proferisonal, showing a greatly improved game. Miss Margaret Groves and H. J. Steinkampf won the semi-final of the mixed doubles. They defeated Miss C. Barrett and O. Knitel, 6—1, 6—1.

CLUB FIELDING RECORDS



"We'll Be There," Says Coach Jim Rice; McGraw Is Trying Columbia Eight Confident of Winning To Make Trade for



vania and Leland Stanford, the CORNELL'S COXSWAIN LIGHTEST other two crews, may spring a surprise, but veteran rivermen here

these fears with his pet rejoinder, "We'll be there."

There has been considerable experimenting with the Columbia crew. Good material was scarce, only two members of the championship crew—Sanborn and Bratton—being available. Rice was still making changes up to a week ago. One of the late discoveries was Wormser, the stroke. This lad stands six feet two inches and weighs 154 pounds. Because of his tremendous reach the Columbia to the short time in which they have rowed together. This lad stands six feet two inches and weighs 154 pounds. Because of his tremendous reach the Columbia to the short time in which they have rowed together. The Red and Blue had a disappointing season, defeats at Princeton and at home not helping matters. Then several cases of sickness prevented an early arrangement in the boat. Even with these handicaps Nickalls has kept his charges working up to the pended on to keep fighting to the end. Wormser's power in the boat can't be estimated. If he proved to be a second McCarty the Blue and White stand an excellent chance of crossing the finish line first.

This is the way Columbia will start the race: Bow, Naumer: No. 2, Jaus; a verage weight is 180½ pounds and everage weight is 180½ pounds

Clute.
St. Louis...
New York...
Chicago
Cincinnati...
Beaton...

National League Pitchers' Records.
Pitchers Chinas 0 W L H Ave
Patricke Chinago 12 2 0 46 105
roos, Uncinnati 7 1 0 21 105
Ritter New York 9 1 0 26 105

IN HISTORY OF RACE.

Automobile Biffer:

I have a 40 horse power Michigan, 1913 model, with a Briggs magneto. It runs nicely at any steady speed, whether four or forty, but as soon as I attempt to go faster, no matter how slowly I apply the gas or manipulate the spark lever, it skips; at first one cylinder and then all four. It also skips going up hills. Nothing stops it except changing to lowest gears. I have had the magneto, timing and carbureter all examined.

From your description of the trouble is not eliminated, by look for air leaks in the manifold took for air leaks in very anney
After two years of defeats Cornell has brought a boat load of wonderful oarsmen here. They are big strapping lads who push their shell through the water at terrific speed. Soler, Chicago Coach Courtney, who is mak ig exceptional efforts to recover Ithaca's prestige on the Hudson, sprang a big work on, the incoming crowds have played safe by making Columbia, corburater needs cleaning and ready strategy and the sort of a "toss a coin and take your done, the trouble is not eliminated, it look for air leaks in the manifold the columbia quarters, two miles up oarsmen here. They are big strapping days who push their shell through the water at terrific speed. Coach Courtney, who is mak ig exceptional efforts to recover Ithaca's prestige on the Hudson, sprang a big work on, the incoming crowds have boat. He lightest coxswain, in the varsity boat. He is the lightest coxswain, in the varsity boat. He is the lightest coxswain, in the varsity boat. He is the lightest coxswain, in the varsity boat. He is the lightest coxswain, in the varsity boat. He is the lightest coxswain, in the varsity boat. He is the lightest coxswain who ever steered a boat in the Hudson, sprang a big work on, the incoming crowds have boat. He is the lightest coxswain, in the varsity boat. He is the lightest coxswain, in the varsity boat. He is the After two years of defeats Cornel

sort of a "toss a coin and take your pick" proposition.

A race visitor in search of information generally makes a beeline for the Columbia quarters, two miles up from the bridge at Krum Elbow.

"What chance has Columbia of repeating last year's victory?" is the first question fired at Coach Rice.

Rice has one answer for this query, a convincing "We'll be there Monday."

A study of the Blue and White crew shows that it is about the same championship in 1814, a light and gritty aggregation of youths.

Columbia has the lightest crew on the river and it evers the crew to the finish is in sight. Cornell shell after the bridge is passed, the severest strain of the long haul when the finish is in sight. Cornell will have many supporters Monday.

Syracuse is another strong favorite. Coach Ten Eyck has developed a won-

championship in 1914, a light and gritty aggregation of youths.

Columbia has the lightest crew on the river and it expects to cross the line first on sheer gameness and fighting ability.

COLUMBIA EIGHT LIGHTEST CREW ON RIVER.

The average weight of the New York beat is 163½ pounds. The Blue and White shell has shown remarkably smooth rowing, especially in rough and choppy water. The only doubt about Rice's crew is its ability to stick it out. The coach answers these fears with his pet rejoinder, "We'll be there."

There has been considerable experiment.

This is the way Columbia will start the race: Bow, Naumer: No. 2, Jaus; the race: Bow, Naumer: No. 2, Jaus; average weight is 180½ pounds and No. 3, Tichborne; No. 4, Sanborn (Captain); No. 5, Dickmann: No. 6, Bratton: No. 7, Ferris; stroke, Wormser; coxswain, Fogs.

Coach Rice believes the race will be fought out between Cornell, Syracuse and Columbia. Penn may do something starting, but it is doubtful. If Rice could make racing conditions thing more than a test of physical be would have the river covered with power. The Pacific coast champions,

National League Batting Averages.

Players. Clubs. G. A.R. R. H. Are.

Luderus. Philadelphia 42 140 16 40 .350 Cobb. Detroit 62 214 65 44 .350

Daubert, Brooking. 53 106 17 66 .337 Fournier, Chicago 65 180 42 67 550

Zmanerman, Brooking. 18 43 2 14 .326 Jackson, Cleveland 50 181 29 63 .248

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Markle, New York. 36 126 17 41 .825 Crawford Detroit 9 25 4 9 .321

Saier Chicago. 52 195 38 63 .323 Cleveland 50 181 29 28 1 324

J. Smith Boston 65 183 22 61 .321 T half Chicago 17 28 4 9 .321

J. Smith Boston 65 183 22 61 .321 T half Chicago 19 25 5 .332

Libberton, New York. 60 178 24 68 131 Lebels. Athletica. 38 141 10 44 .312

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A Veteran Catcher

Giants' Manager Says His Own Club's Poor Showing Has Been Largely Due to Inferior Backstopping, as He Claims Catching Is 331/3 Per Cent. of Good Pitching.

By John J. McGraw,

Manager of the Giants. OME weeks ago I predicted that the team which got the pitching would make the going in the National League this year. Much to my surprise, the Cubs have been getting good twirling, and they are leading the league, and leading it rather comfortably. Good

catching has made out of an unsteady staff one of the best in the league. I figure catching to be about thirty-three and onethird per cent. of good pitching, especially when a manager is trying to get by with some youngsters in the box. Of course, you can take a veteran like Mathewson, and any catcher can work with him. He is the easiest man in baseball to handle.

"I could catch him sitting in a rocking chair," declared Meyers when the Indian first broke in. "These big leaguers are not so hard to hold, anyway."

But Chief changed his mind after he had tried to work with Arthur Raymond. That twirler was the bane of Meyers's life-and the bane of mine, too, for that matter. Meyers has always hated to handle a spitball pitcher, anyway, and Raymond was one of the worst spitball pitchers in

M'GRAW SAYS HE NEVER PASSE UP COLLINS.

The source of Moran's mirth is George Chalmers, who is pitching good baseball for the Philadelphia club this season, after he had spent the spring in Marlin as a guest of the Glants. When I make a mistake I am not afraid to say I have. I have been accused of many things I did not do. For instance, I have seen it printed in the papers time and again that I passed up Eddie Collins after have ing seen him play when he was with the Columbia College nine. As a mat-ter of fact, I never saw Collins in action until after he had put on an Athletic uniform, and no one ever tipped me off to him. Bill Lauder might have done this, but, for some reason, he did not. Lauder was the

all in, that his arm would never be good again. I had several promising young pitchers in Marlin, and I was young pitchers in Marlin, and I was trying to sort them out. Naturally, I did not get much of an opportunity to watch Chaimers. Moran signed him on a chance. He has made good. The Phitadelphia club looks good, and Moran has been breezing along on his pitching. He has had a great streak of luck with his twirlers. Men he was not banking on have necessarily to the state of the state he was not banking on have panned out for him. Of course, Chalmers's showing was like finding a pitcher, and Mayer is going better than he ever did, with Alexander displaying his best season, which is plenty good his best season, which is plenty good enough. Moran also picked up a star in Bancroft and plugged the big hole of his team. Bancroft has made that

well, but he is still the optimist of old. He has been somewhat disap-pointed in Sherwood Magee's hitting. It has been'a question of pitchers with him. Neither Rudolph nor Tyler has shown anything like the stuff they had last year, and the crop of young "phenoms" George spent the winter talking about has not proved winter taking about has not proved up. The cold weather alibi of the pitchers not being in shape is pretty badly frazzled. Stallings simply is not setting the pitching. That is all. Herzog is again in hot water in Cincinnati. It has long been the custom out there to change the manager every time they change their shirts.

every time they change their shirts, or oftener. It was some time ago I predicted the Reds would finish last, and, in doing so, would establish a record by finishing further last than any club ever has. They are doin their best to confirm my prediction. their best to confirm my prediction.

The St. Louis Club is beoming along and showing a lot of baseball. This is a team which is playing together with spirit without harboring any particular stars. It shows the fine work of Miller Huggins. He has put the pepper into the club and it is trying all the time as a team. That is what counts. In some respects, the club's manner reminds me of the old Cubs. The players are fighting among themselves or with their opponents all the time.

American League Pitchers' Records.

the ball when working against former teammates to show his manager what a mistake he made not keeping him. All ball players

I had been told that Chalmers was